

=> fil reg

FILE 'REGISTRY' ENTERED AT 14:54:43 ON 06 NOV 2002
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 5 NOV 2002 HIGHEST RN 470660-68-5
DICTIONARY FILE UPDATES: 5 NOV 2002 HIGHEST RN 470660-68-5

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP
PROPERTIES for more information. See STNote 27, Searching Properties
in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> d ide can l1

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2002 ACS

RN 58-85-5 REGISTRY

CN 1H-Thieno[3,4-d]imidazole-4-pentanoic acid, hexahydro-2-oxo-,
(3aS,4S,6aR)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1H-Thieno[3,4-d]imidazole-4-pentanoic acid, hexahydro-2-oxo-,
[3aS-(3a.alpha.,4.beta.,6a.alpha.)]-

CN **Biotin (8CI)**

OTHER NAMES:

CN (+)-Biotin

CN (+)-cis-Hexahydro-2-oxo-1H-thieno[3,4]imidazole-4-valeric acid

CN 255: PN: EP1223534 SEQID: 255 claimed sequence

CN Bioepiderm

CN Bios II

CN cis-(+)-Tetrahydro-2-oxothieno[3,4]imidazoline-4-valeric acid

CN Coenzyme R

CN D(+)-Biotin

CN D-Biotin

CN d-Biotin

CN Factor S

CN Factor S (vitamin)

CN Lutavit H2

CN Meribin

CN Rovimix H 2

CN Vitamin B7

CN Vitamin H

FS STEREOSEARCH

DR 58073-87-3, 15720-24-8, 22879-79-4, 3672-05-7

MF C10 H16 N2 O3 S

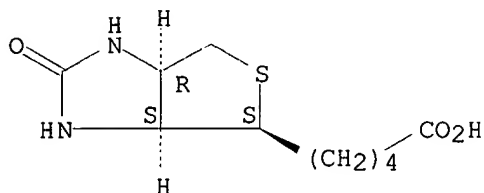
CI COM

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN,
CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, DDFU, DIOGENES, DRUGU,
EMBASE, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*,
MSDS-OHS, NIOSHTIC, PHAR, PIRA, PROMT, RTECS*, SPECINFO, TOXCENTER,
USAN, USPAT2, USPATFULL, VETU

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**, WHO
 (**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry. Rotation (+).



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

9399 REFERENCES IN FILE CA (1962 TO DATE)
 2038 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 9447 REFERENCES IN FILE CAPLUS (1962 TO DATE)
 8 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:284345
 REFERENCE 2: 137:284329
 REFERENCE 3: 137:279186
 REFERENCE 4: 137:279008
 REFERENCE 5: 137:278091
 REFERENCE 6: 137:277937
 REFERENCE 7: 137:277849
 REFERENCE 8: 137:275383
 REFERENCE 9: 137:275376
 REFERENCE 10: 137:275370

=> d ide can l10

L10 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2002 ACS

RN 51306-35-5 REGISTRY

CN Spiro[isobenzofuran-1(3H),9'-[9H]xanthen]-3-one, 5-[(4,6-dichloro-1,3,5-triazin-2-yl)amino]-3',6'-dihydroxy- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 5-(4,6-Dichlorotriazinyl)aminofluorescein

CN 5-[(4,6-Dichlorotriazin-2-yl)amino]fluorescein

CN DTAF

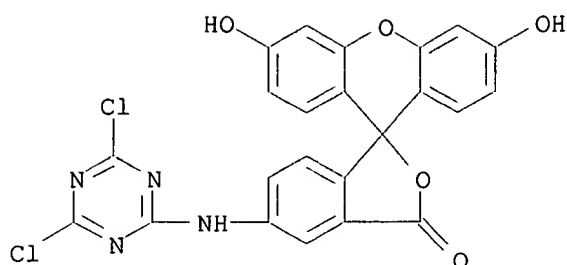
FS 3D CONCORD

DR 102417-95-8, 93265-91-9, 208666-23-3

MF C23 H12 Cl2 N4 O5

CI COM

LC STN Files: BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CANCERLIT, CAPLUS, CASREACT, CHEMCATS, CSCHEM, MEDLINE, PIRA, TOXCENTER, USPAT2, USPATFULL
 (*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

97 REFERENCES IN FILE CA (1962 TO DATE)
 34 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 98 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 137:58927
 REFERENCE 2: 137:10852
 REFERENCE 3: 136:365948
 REFERENCE 4: 136:246798
 REFERENCE 5: 136:113267
 REFERENCE 6: 136:2242
 REFERENCE 7: 135:341178
 REFERENCE 8: 134:362193
 REFERENCE 9: 134:350284
 REFERENCE 10: 134:350243

=> d ide can l16

L16 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2002 ACS
 RN 56-12-2 REGISTRY
 CN Butanoic acid, 4-amino- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Butyric acid, 4-amino- (7CI, 8CI)
 OTHER NAMES:
 CN .gamma.-Aminobutanoic acid
 CN .gamma.-Aminobutyric acid
 CN .omega.-Aminobutyric acid
 CN 3-Carboxypropylamine
 CN 4-Aminobutanoic acid
 CN 4-Aminobutyric acid
 CN Aminalon
 CN GABA
 CN Gaballon
 CN Gamarex
 CN Gammalon
 CN Gammalone
 CN Gammar
 CN Gammamol
 CN Mielogen

CN Mielomade
CN Piperidic acid
CN Piperidinic acid
FS 3D CONCORD
DR 3131-86-0
MF C4 H9 N O2
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN,
CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, DDFU, DETHERM*, DRUGU,
EMBASE, GMELIN*, HODOC*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*,
MSDS-OHS, NAPRALERT, NIOSHTIC, PROMT, RTECS*, SPECINFO, SYNTHLINE,
TOXCENTER, ULIDAT, USAN, USPAT2, USPATFULL, VETU
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

$\text{H}_2\text{N}^-(\text{CH}_2)_3-\text{CO}_2\text{H}$

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

23756 REFERENCES IN FILE CA (1962 TO DATE)
417 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
23772 REFERENCES IN FILE CAPLUS (1962 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:288103
REFERENCE 2: 137:278935
REFERENCE 3: 137:278503
REFERENCE 4: 137:278003
REFERENCE 5: 137:277168
REFERENCE 6: 137:277126
REFERENCE 7: 137:277090
REFERENCE 8: 137:276516
REFERENCE 9: 137:275934
REFERENCE 10: 137:274680

=> d sta que 124

L2 6127 SEA FILE=REGISTRY ABB=ON PLU=ON NCNC2-SC4/ES
L24 3 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND 46.492/RID AND
7938.12/RID

=> d sta que 125

L25 0 SEA FILE=REGISTRY ABB=ON PLU=ON 'ABU'GVVNARSLK|'ABU'SQNYPIVQK
/SQSP

=> d 124 sqide can tot

L24 ANSWER 1 OF 3 REGISTRY COPYRIGHT 2002 ACS

RN 375366-96-4 REGISTRY

CN L-Lysinamide, N-[4-[[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]-1-oxobutyl]-L-seryl-L-glutaminyl-L-asparaginyl-L-tyrosyl-L-prolyl-L-isoleucyl-L-valyl-L-glutaminyl-N6-[4-chloro-6-[(3',6'-dihydroxy-3-oxospiro[isobenzofuran-1(3H),9'-[9H]xanthen)-5-yl]amino]-1,3,5-triazin-2-yl]- (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

SQL 9

NTE modified (modifications unspecified)

SEQ 1 SQNYPIVQK

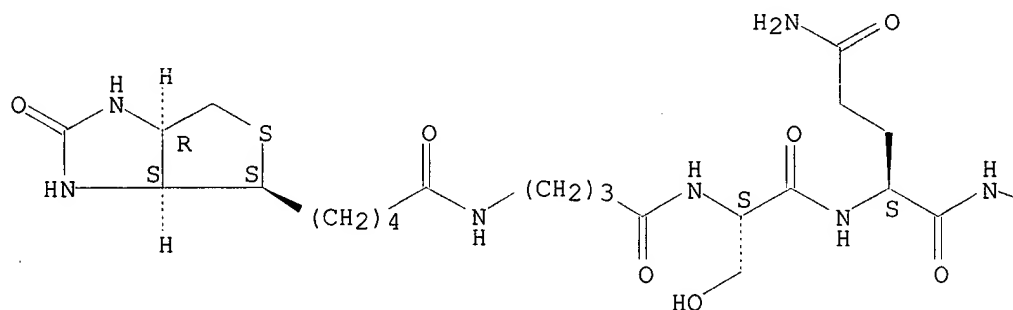
MF C85 H110 Cl N21 O22 S

SR CA

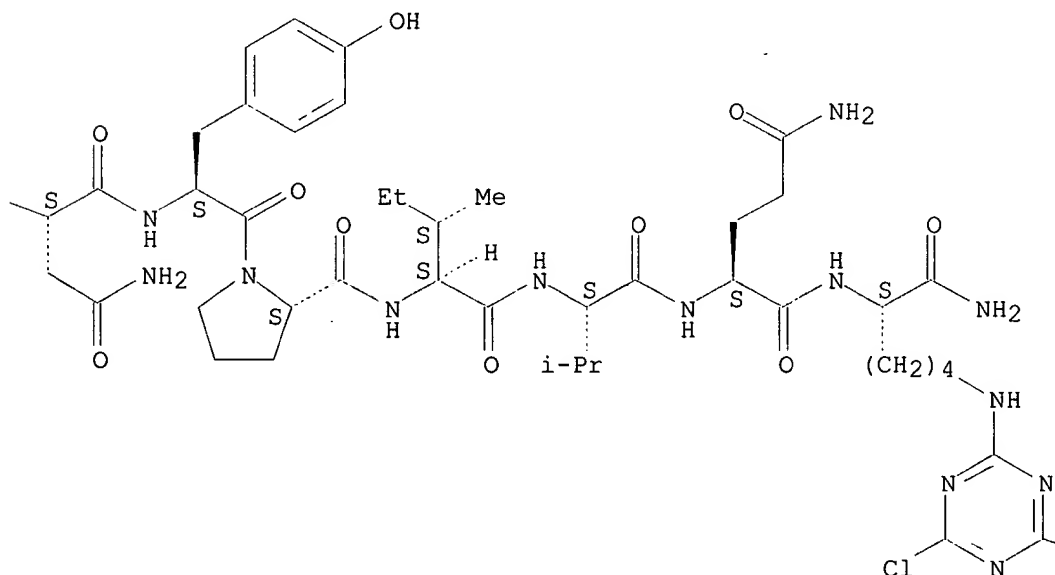
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.

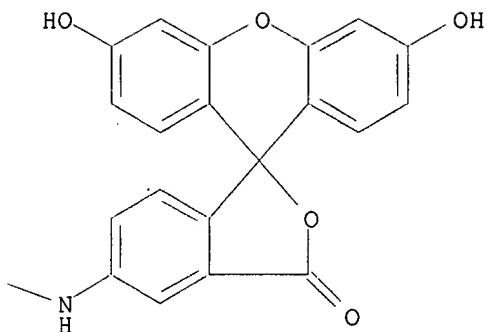
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PAGE 1-C



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 136:2242

L24 ANSWER 2 OF 3 REGISTRY COPYRIGHT 2002 ACS

RN 375366-95-3 REGISTRY

CN L-Lysinamide, N-[4-[[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]-1-oxobutyl]glycyl-L-valyl-L-valyl-L-asparaginy-L-alanyl-L-arginyl-L-seryl-L-leucyl-N6-[4-chloro-6-[(3',6'-dihydroxy-3-oxospiro[isobenzofuran-1(3H),9'-[9H]xanthen]-5-yl)amino]-1,3,5-triazin-2-yl]- (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

SQL 9

NTE modified (modifications unspecified)

SEQ 1 GVVNARSLK

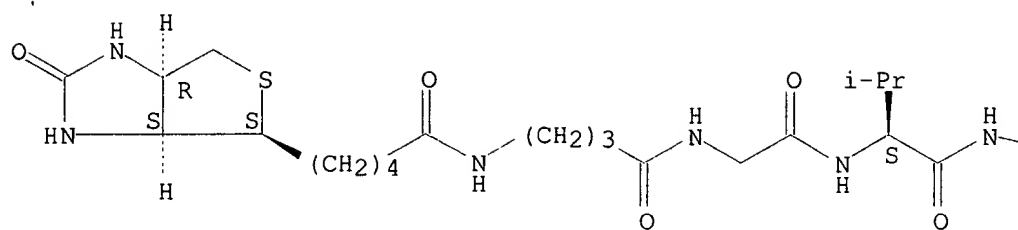
MF C77 H107 Cl N22 O19 S

SR CA

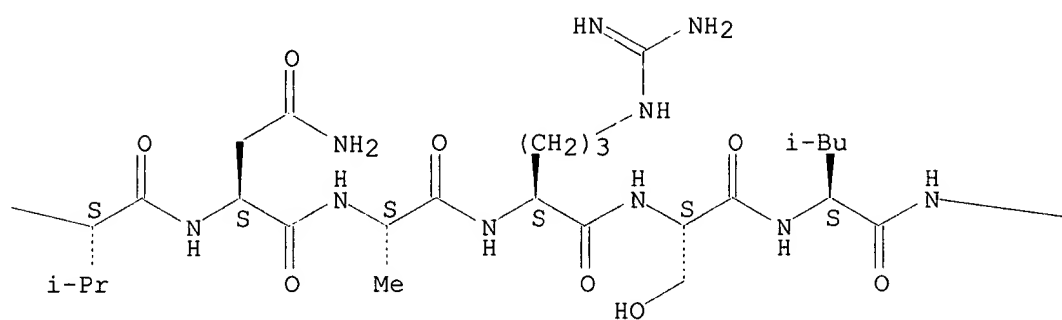
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.

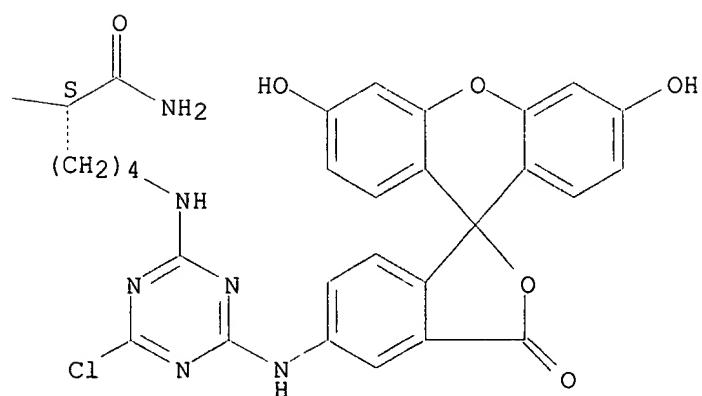
PAGE 1-A



PAGE 1-B



PAGE 1-C



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)
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REFERENCE 1: 136:2242

L24 ANSWER 3 OF 3 REGISTRY COPYRIGHT 2002 ACS

RN 189753-42-2 REGISTRY

CN L-Lysinamide, (2S)-2-[[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]butanoylglycyl-L-valyl-L-valyl-L-asparaginyl-L-alanyl-L-seryl-L-alanyl-L-arginyl-L-leucyl-N6-[4-chloro-6-[(3',6'-dihydroxy-3-oxospiro[isobenzofuran-1(3H),9'-[9H]xanthen]-5-yl)amino]-1,3,5-triazin-2-yl]- (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

SQL 11

NTE modified (modifications unspecified)

type	-----	location	-----	description
uncommon	Abu-1	-	-	

SEQ 1 XGVVNASARL K

RELATED SEQUENCES AVAILABLE WITH SEQLINK

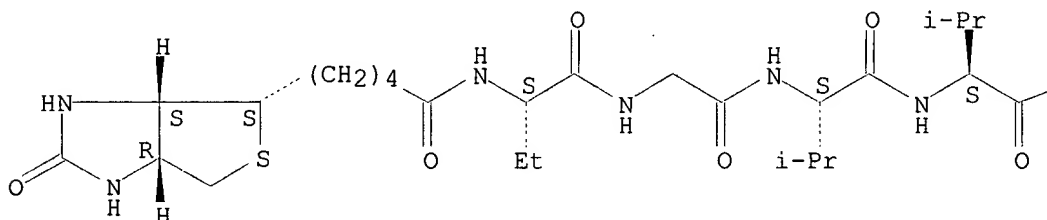
MF C80 H112 Cl N23 O20 S

SR CA

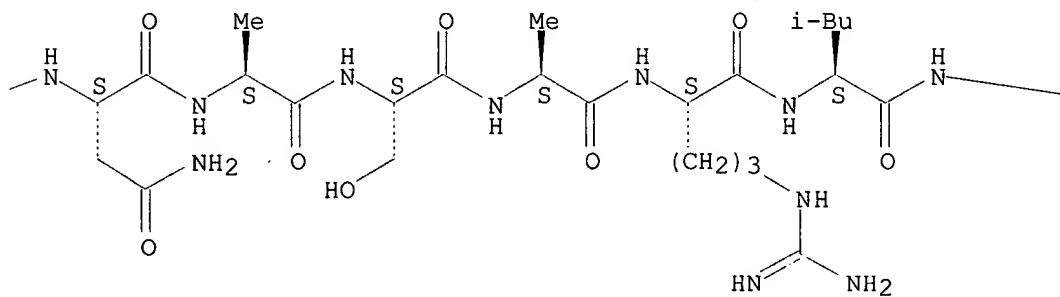
LC STN Files: CA, CAPLUS

Absolute stereochemistry.

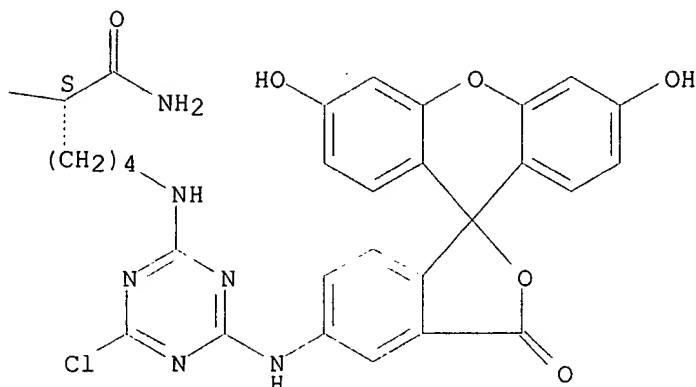
PAGE 1-A



PAGE 1-B



PAGE 1-C



1 REFERENCES IN FILE CA (1962 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 126:327207

=> fil hcaplus

FILE 'HCAPLUS' ENTERED AT 14:55:50 ON 06 NOV 2002

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FILE COVERS 1907 - 6 Nov 2002 VOL 137 ISS 19

FILE LAST UPDATED: 5 Nov 2002 (20021105/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

=> d all tot 127

L27 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2002 ACS

AN 2001:868975 HCAPLUS

DN 136:2242

TI Fluorescence polarization method for determining protease activity

IN Levine, Leanna M.; Toth, Mihaly V.

PA G.D. Searle & Co., USA

SO U.S. Pat. Appl. Publ., 10 pp., Cont. of U.S. Ser. No. 246,787, abandoned.
 CODEN: USXXCO

DT Patent

LA English
 IC ICM C12Q001-70
 ICS G01N033-53; C07K005-00; A61K038-04
 NCL 435005000
 CC 7-1 (Enzymes)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2001046668	A1	20011129	US 2001-880654	20010613
PRAI	US 1994-327170	B1	19941021		
	US 1997-867258	B1	19970602		
	US 1999-246787	B1	19990208		
OS	MARPAT 136:2242				
AB	A fluorescence polarization method of detg. protease activity is described. The method comprises incubating a mixt. of a protease of interest and a protease-selective substrate so that the protease may cleave the substrate. The substrate is capable of being bound to an anchor, and the substrate also includes a fluorescent radical. After the incubation period the substrate is attached to the anchor, if not previously attached. The amt. of cleaved substrate is detd. by monitoring the change in the total fluorescence polarization of the mixt.				
ST	protease detn fluorescence polarization				
IT	Proteins RL: ARU (Analytical role, unclassified); ANST (Analytical study) (biotin-selective; fluorescence polarization method for detg. protease activity)				
IT	Antiviral agents Drug screening Fluorescent indicators Polarized fluorescence (fluorescence polarization method for detg. protease activity)				
IT	Antibodies Avidins RL: ARU (Analytical role, unclassified); ANST (Analytical study) (fluorescence polarization method for detg. protease activity)				
IT	Herpesviridae Human herpesvirus 1 Human herpesvirus 2 Human herpesvirus 5 Mouse cytomegalovirus Virus (protease of; fluorescence polarization method for detg. protease activity)				
IT	Amino acids, uses RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses) (substrate contg.; fluorescence polarization method for detg. protease activity)				
IT	138039-55-1D, derivs. RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses) (Cascade blue, substrate contg.; fluorescence polarization method for detg. protease activity)				
IT	9001-92-7, Protease 139691-88-6, Assemblin 144114-21-6, HIV protease RL: ANT (Analyte); ANST (Analytical study) (fluorescence polarization method for detg. protease activity)				
IT	375366-95-3P 375366-96-4P RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses) (fluorescence polarization method for detg. protease activity)				
IT	9013-20-1, Streptavidin RL: ARU (Analytical role, unclassified); ANST (Analytical study) (fluorescence polarization method for detg. protease activity)				
IT	51-17-2D, Benzimidazole, derivs. 56-12-2, 4-Aminobutyric acid, uses 56-40-6, Glycine, uses				

58-85-5, Biotin 60-32-2, 6-Aminocaproic acid
65-61-2D, Acridine orange, derivs. 81-88-9D, derivs. 91-22-5D,
Quinoline, derivs. 91-64-5D, Coumarin, derivs. 129-00-0D, Pyrene,
derivs. 502-02-3D, derivs. 660-88-8, 5-Aminopentanoic acid 929-17-9,
7-Aminoheptanoic acid 1672-46-4, Digoxigenin 2321-07-5D, Fluorescein,
derivs. 4272-77-9D, derivs. 17372-87-1D, Eosin, derivs. 25550-58-7D,
Dinitrophenol, derivs. 50402-56-7D, EDANS, derivs. **51306-35-5**,
DTAF 82354-19-6D, Texas red, derivs. 138026-71-8D, BODIPY,
derivs.

RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
(substrate contg.; fluorescence polarization method for detg. protease
activity)

L27 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2002 ACS

AN 1997:258608 HCAPLUS

DN 126:327207

TI Measurement of specific protease activity utilizing fluorescence
polarization

AU **Levine, Leanne M.**; Michener, Marshall L.; **Toth, Mihaly**
V.; Holwerda, Barry C.

CS Monsanto Corporate Res., St. Louis, MO, 63198, USA

SO Analytical Biochemistry (1997), 247(1), 83-88

CODEN: ANBCA2; ISSN: 0003-2697

PB Academic

DT Journal

LA English

CC 7-1 (Enzymes)

AB A fluorescence polarization assay was designed to measure proteolytic
cleavage of a specific peptide substrate for human cytomegalovirus
protease. The peptide substrate was derivatized by biotinylation of a
gamma.-aminobutyric acid-modified
amino-terminus and labeled with 5-(4,6-dichlorotriazinyl)
aminofluorescein at the carboxy-terminus. Incubation of this
substrate with recombinant human cytomegalovirus protease and subsequent
addn. of egg white avidin produced a polarization signal that was
proportional to the relative amts. of cleaved and uncleaved substrate.
The uncleaved substrate produced a high polarization value upon binding to
avidin, whereas the cleaved, low-mol.-wt. fluorescently tagged peptide
that cannot bind to avidin produced a low polarization value. The
inhibitory activity of a 3,4-dichloroisocoumarin against the protease was
evaluated by comparing the change in polarization with a noninhibited
control. The fluorescence polarization protease assay does not suffer
from interference due to the presence of absorptive interferants making
this a convenient, homogeneous assay for high throughput screening.

ST protease assay fluorescence polarization substrate

IT Fluorescent substances

(measurement of specific protease activity utilizing fluorescence
polarization)

IT 139691-88-6, Proteinase, assembly protein precursor-processing

RL: ANT (Analyte); BAC (Biological activity or effector, except adverse);

BPR (Biological process); BSU (Biological study, unclassified); ANST

(Analytical study); BIOL (Biological study); PROC (Process)

(measurement of specific protease activity utilizing fluorescence
polarization)

IT **189753-42-2P**

RL: ARG (Analytical reagent use); BPR (Biological process); BSU

(Biological study, unclassified); SPN (Synthetic preparation); ANST

(Analytical study); BIOL (Biological study); PREP (Preparation); PROC

(Process); USES (Uses)

(measurement of specific protease activity utilizing fluorescence
polarization)

IT 51050-59-0, 3,4-Dichloroisocoumarin

RL: BAC (Biological activity or effector, except adverse); BPR (Biological

process); BSU (Biological study, unclassified); BIOL (Biological study);
PROC (Process)
(measurement of specific protease activity utilizing fluorescence
polarization)

IT 58-85-5, Biotin 51306-35-5, DTAF

189753-43-3

RL: RCT (Reactant); RACT (Reactant or reagent)

(measurement of specific protease activity utilizing fluorescence
polarization)

=> fil uspatall

FILE 'USPATFULL' ENTERED AT 14:56:09 ON 06 NOV 2002

CA INDEXING COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 14:56:09 ON 06 NOV 2002

CA INDEXING COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY (ACS)

=> d bib abs hitrn 128

L28 ANSWER 1 OF 1 USPATFULL

AN 2001:218180 USPATFULL

TI Fluorescence polarization method for determining protease activity

IN Levine, Leanna M., Olivette, MO, United States

Toth, Mihaly V., St. Louis, MO, United States

PA G.D. Searle & Co., Chicago, IL, United States, 60680 (U.S. corporation)

PI US 2001046668 A1 20011129

AI US 2001-880654 A1 20010613 (9)

RLI Continuation of Ser. No. US 1999-246787, filed on 8 Feb 1999, ABANDONED

Continuation of Ser. No. US 1997-867258, filed on 2 Jun 1997, ABANDONED

Continuation of Ser. No. US 1994-327170, filed on 21 Oct 1994, ABANDONED

DT Utility

FS APPLICATION

LREP Pharmacia Corporation, Corporate Patent Department, 800 North Lindbergh
Blvd., Mail Zone 04E, St. Louis, MO, 63167

CLMN Number of Claims: 15

ECL Exemplary Claim: 1

DRWN 2 Drawing Page(s)

LN.CNT 585

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A fluorescence polarization method of determining protease activity is
described.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 375366-95-3P 375366-96-4P

(fluorescence polarization method for detg. protease activity)

=> d his

(FILE 'HOME' ENTERED AT 14:37:41 ON 06 NOV 2002)

SET COST OFF

FILE 'REGISTRY' ENTERED AT 14:37:51 ON 06 NOV 2002

L1 1 S BIOTIN/CN

L2 6127 S NCNC2-SC4/ES

E 'ABU-GLY-VAL-VAL-ASN-ALA-ARG-SER-LEU-LYS'/SQEP

E 'ABU-SER-G;M-ASN-TYR-PRO-ILE-VAL-GLN-LYS'/SQEP

E 'ABU-SER-GLN-ASN-TYR-PRO-ILE-VAL-GLN-LYS'/SQEP

FILE 'HCAPLUS' ENTERED AT 14:39:38 ON 06 NOV 2002

E TOTH M/AU

L3 192 S E3,E12

E TOTH MIHALY/AU
E TOTH MIHALY/AU
L4 81 S E3-E6
E LEVINE L/AU
L5 71 S E3,E7
L6 8 S E21-E25
L7 349 S L3-L6
L8 22923 S L1 OR BIOTIN
L9 2 S L7 AND L8

FILE 'REGISTRY' ENTERED AT 14:44:59 ON 06 NOV 2002
L10 1 S 51306-35-5

FILE 'REGISTRY' ENTERED AT 14:45:33 ON 06 NOV 2002

FILE 'HCAPLUS' ENTERED AT 14:45:56 ON 06 NOV 2002
L11 102 S L10
L12 76 S DTAF
L13 62 S DICHLOROTRIAZIN?(L) (AMINOFLUORESCIN OR AMINO FLUORESCIN)
L14 2 S L7 AND L11-L13
L15 2 S L9,L14

FILE 'REGISTRY' ENTERED AT 14:46:59 ON 06 NOV 2002
L16 1 S 56-12-2

FILE 'HCAPLUS' ENTERED AT 14:47:47 ON 06 NOV 2002
L17 23862 S L16
L18 14614 S (4 OR GAMMA)() (AMINOBTANOIC OR AMINOBTYRIC)()ACID
L19 3 S L7 AND L17,L18
L20 3 S L15,L19
L21 346 S L7 NOT L20
SEL RN L20

FILE 'REGISTRY' ENTERED AT 14:49:33 ON 06 NOV 2002
L22 34 S E1-E34
L23 6 S L22 AND PROTEIN/FS
L24 3 S L2 AND 46.492/RID AND 7938.12/RID
L25 0 S 'ABU'GVVNARSLK|'ABU'SQNYPIVQK/SQSP

FILE 'HCAPLUS' ENTERED AT 14:53:47 ON 06 NOV 2002
L26 2 S L24
L27 2 S L26 AND L3-L9,L11-L15,L17-L21

FILE 'USPATFULL, USPAT2' ENTERED AT 14:54:23 ON 06 NOV 2002
L28 1 S L24

FILE 'REGISTRY' ENTERED AT 14:54:43 ON 06 NOV 2002

FILE 'HCAPLUS' ENTERED AT 14:55:50 ON 06 NOV 2002

FILE 'USPATFULL, USPAT2' ENTERED AT 14:56:09 ON 06 NOV 2002

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L1 21 S C10H16N2O3S/MF AND NCNC2-SC4/ES
L2 13 S L1 AND BIOTIN
L3 8 S L2 NOT (14C# OR 35S OR LABELED OR (D OR T)/ELS)
L4 1 S 51306-35-5

FILE 'HCAPLUS' ENTERED AT 15:03:37 ON 06 NOV 2002

L5 9527 S L3
L6 28653 S ?BIOTIN?
L7 28990 S L5 OR L6
L8 102 S L4
L9 76 S DTAF
L10 117 S ?DICHORO?(L)?TRIAZIN?(L)?FLUORESC EIN?
L11 10 S L7 AND L8-L10
L12 8 S L11 NOT (136:2242 OR 126:327207)/DN

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FILE LAST UPDATED: 5 Nov 2002 (20021105/ED)

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=> d l12 all hitstr tot

L12 ANSWER 1 OF 8 HCAPLUS COPYRIGHT 2002 ACS
AN 2002:72743 HCAPLUS
DN 136:129025
TI Immunoassay reagents and methods and test kits for the detection and quantification of vancomycin in biological fluids
IN Adamczyk, Maciej; Brate, Elaine M.; Perkowitz, Mary M.; Rege, Sushil D.
PA USA
SO U.S. Pat. Appl. Publ., 47 pp., Cont.-in-part of U.S. Ser. No. 26,869, abandoned.
CODEN: USXXCO
DT Patent
LA English

IC ICM G01N033-53
 ICS G01N033-542; G01N033-537; G01N033-543
 NCL 435004000
 CC 1-1 (Pharmacology)
 FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2002009708	A1	20020124	US 1998-174121	19981016
	WO 2000023806	A1	20000427	WO 1999-US24270	19991015
	W: CA, JP				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	EP 1121599	A1	20010808	EP 1999-956580	19991015
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	JP 2002528704	T2	20020903	JP 2000-577495	19991015
PRAI	US 1995-416567	B1	19950404		
	US 1998-26869	B2	19980220		
	US 1998-174121	A	19981016		
	WO 1999-US24270	W	19991015		

OS MARPAT 136:129025

AB Immunoassay reagents, methods and test kits for the specific quantification of vancomycin in a test sample are disclosed. The reagent comprises antibodies prep'd. with immunogens which is conjugated to a carrier protein and the carboxylic acid terminal of vancomycin by a linking moiety. Also described is the synthesis of labeled reagents where vancomycin is conjugated with preferably fluorescein or fluorescein derivs. via a 0 to 50 carbon linking moiety through the N-methylleucyl amine.

ST immunoassay reagent test kit vancomycin biol fluid; antibody vancomycin immunoassay reagent

IT Immunoglobulins
 RL: ARG (Analytical reagent use); BPN (Biosynthetic preparation); PUR (Purification or recovery); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (G, monoclonal; immunoassay reagents and methods and test kits for detection and quantification of vancomycin in biol. fluids)

IT Immunoglobulins
 RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
 (G; immunoassay reagents and methods and test kits for detection and quantification of vancomycin in biol. fluids)

IT Hybridoma
 (HB 11834; immunoassay reagents and methods and test kits for detection and quantification of vancomycin in biol. fluids)

IT Body fluid
 (anal. of; immunoassay reagents and methods and test kits for detection and quantification of vancomycin in biol. fluids)

IT Structure-activity relationship
 (antibody-binding, by vancomycin analogs; immunoassay reagents and methods and test kits for detection and quantification of vancomycin in biol. fluids)

IT Thyroglobulin
 RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (conjugates with vancomycin derivs., as immunogens; immunoassay reagents and methods and test kits for detection and quantification of vancomycin in biol. fluids)

IT Hemocyanins
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 (conjugates with vancomycin derivs., keyhole limpet, as immunogens; immunoassay reagents and methods and test kits for detection and quantification of vancomycin in biol. fluids)

- IT Chemiluminescent substances
 - Chromophores
 - Fluorescent substances
 - Luminescent substances
 - Phosphorescent substances
 - (conjugates with vancomycin derivs.; immunoassay reagents and methods and test kits for detection and quantification of vancomycin in biol. fluids)
- IT Enzymes, uses
 - RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
 - (conjugates, with vancomycin derivs.; immunoassay reagents and methods and test kits for detection and quantification of vancomycin in biol. fluids)
- IT Immunoassay
 - (fluorescence-polarization; immunoassay reagents and methods and test kits for detection and quantification of vancomycin in biol. fluids)
- IT Immunoglobulins
 - RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)
 - (fragments, Fab, of monoclonal IgG to vancomycin; immunoassay reagents and methods and test kits for detection and quantification of vancomycin in biol. fluids)
- IT Biosensors
 - Immobilization, molecular
 - Immunoassay
 - Sample preparation
 - Test kits
 - (immunoassay reagents and methods and test kits for detection and quantification of vancomycin in biol. fluids)
- IT Antibodies
 - RL: ARG (Analytical reagent use); BPN (Biosynthetic preparation); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)
 - (immunoassay reagents and methods and test kits for detection and quantification of vancomycin in biol. fluids)
- IT Proteins
 - RL: REM (Removal or disposal); PROC (Process)
 - (immunoassay reagents and methods and test kits for detection and quantification of vancomycin in biol. fluids)
- IT Stabilizing agents
 - (peptides, for vancomycin, antibody specific for vancomycin not competing with; immunoassay reagents and methods and test kits for detection and quantification of vancomycin in biol. fluids)
- IT Calibration
 - (polypeptide-stabilized vancomycin as stable calibrator for; immunoassay reagents and methods and test kits for detection and quantification of vancomycin in biol. fluids)
- IT Albumins, biological studies
 - RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 - (serum, conjugates with vancomycin derivs., bovine, as immunogens; immunoassay reagents and methods and test kits for detection and quantification of vancomycin in biol. fluids)
- IT Dipeptides
 - Tripeptides
 - RL: BSU (Biological study, unclassified); BIOL (Biological study)
 - (stabilizing vancomycin, antibody specific for vancomycin not competing with; immunoassay reagents and methods and test kits for detection and quantification of vancomycin in biol. fluids)
- IT Peptides, biological studies
 - RL: BSU (Biological study, unclassified); BIOL (Biological study)
 - (tetrapeptides, stabilizing vancomycin, antibody specific for vancomycin not competing with; immunoassay reagents and methods and

test kits for detection and quantification of vancomycin in biol. fluids)

IT 98575-51-0, CDP-II
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (antibody specific for vancomycin having no cress-reactivity with;
 immunoassay reagents and methods and test kits for detection and
 quantification of vancomycin in biol. fluids)

IT 55598-85-1
 RL: BSU (Biological study, unclassified); RCT (Reactant); BIOL (Biological
 study); RACT (Reactant or reagent)
 (antibody specific for vancomycin having no cress-reactivity with;
 immunoassay reagents and methods and test kits for detection and
 quantification of vancomycin in biol. fluids)

IT 183747-03-7DP, conjugates with thyroglobulin
 RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL
 (Biological study); PREP (Preparation); USES (Uses)
 (as immunogen; immunoassay reagents and methods and test kits for
 detection and quantification of vancomycin in biol. fluids)

IT 1404-90-6, Vancomycin
 RL: ANT (Analyte); BSU (Biological study, unclassified); RCT (Reactant);
 ANST (Analytical study); BIOL (Biological study); RACT (Reactant or
 reagent)
 (immunoassay reagents and methods and test kits for detection and
 quantification of vancomycin in biol. fluids)

IT 3301-79-9D, 6-Carboxyfluorescein, conjugates with vancomycin derivs.
 21811-74-5D, **Dichlorotriazinylaminofluorescein**, conjugates with
 vancomycin derivs. 27599-63-9D, Aminofluorescein, conjugates with
 vancomycin derivs. 76823-03-5D, 5-Carboxyfluorescein, conjugates with
 vancomycin derivs. 105864-78-6D, conjugates with vancomycin derivs.
 265311-68-0 265312-66-1D, conjugates with vancomycin derivs.
 RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
 (immunoassay reagents and methods and test kits for detection and
 quantification of vancomycin in biol. fluids)

IT 224826-24-8P 224826-25-9P 224826-26-0P 224826-27-1P 224826-28-2P
 224826-29-3P 224826-30-6P 224826-31-7P
 RL: ARG (Analytical reagent use); BSU (Biological study, unclassified);
 SPN (Synthetic preparation); ANST (Analytical study); BIOL (Biological
 study); PREP (Preparation); USES (Uses)
 (immunoassay reagents and methods and test kits for detection and
 quantification of vancomycin in biol. fluids)

IT 1404-90-6D, Vancomycin, conjugates with immunogenic carrier or label
 RL: ARG (Analytical reagent use); BUU (Biological use, unclassified); ANST
 (Analytical study); BIOL (Biological study); USES (Uses)
 (immunoassay reagents and methods and test kits for detection and
 quantification of vancomycin in biol. fluids)

IT 635-65-4, Bilirubin, analysis
 RL: ARU (Analytical role, unclassified); ANST (Analytical study)
 (immunoassay reagents and methods and test kits for detection and
 quantification of vancomycin in biol. fluids)

IT 55598-74-8, Aglucovancomycin 98510-29-3 101485-50-1,
 Desvancosaminylvancomycin 113585-94-7
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (immunoassay reagents and methods and test kits for detection and
 quantification of vancomycin in biol. fluids)

IT 320410-19-3
 RL: BSU (Biological study, unclassified); PRP (Properties); RCT
 (Reactant); BIOL (Biological study); RACT (Reactant or reagent)
 (immunoassay reagents and methods and test kits for detection and
 quantification of vancomycin in biol. fluids)

IT 56-12-2, 4-Aminobutyric acid, reactions **58-85-5, Biotin**
 6055-52-3 21811-74-5 35013-72-0 92557-81-8 197638-25-8
 199293-83-9 211106-69-3, 10-(3-Sulfopropyl)-N-tosyl-N-(3-
 carboxypropyl)acridinium-9-carboxamide

RL: RCT (Reactant); RACT (Reactant or reagent)
 (immunoassay reagents and methods and test kits for detection and quantification of vancomycin in biol. fluids)

IT 3251-07-8P, Methyl-4-amino Butyrate 13031-60-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (immunoassay reagents and methods and test kits for detection and quantification of vancomycin in biol. fluids)

IT 224826-23-7P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (immunoassay reagents and methods and test kits for detection and quantification of vancomycin in biol. fluids)

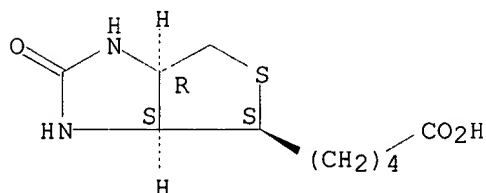
IT 77-86-1, Tris buffer 97-05-2, 5-Sulfosalicylic acid 7758-98-7, Copper sulfate, analysis
 RL: ARU (Analytical role, unclassified); ANST (Analytical study)
 (pretreatment soln. contg.; immunoassay reagents and methods and test kits for detection and quantification of vancomycin in biol. fluids)

IT 224826-22-6P
 RL: BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)
 (vancomycin tracers and biosensor prepn. from; immunoassay reagents and methods and test kits for detection and quantification of vancomycin in biol. fluids)

IT 58-85-5, Biotin
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (immunoassay reagents and methods and test kits for detection and quantification of vancomycin in biol. fluids)

RN 58-85-5 HCAPLUS
 CN 1H-Thieno[3,4-d]imidazole-4-pentanoic acid, hexahydro-2-oxo-, (3aS,4S,6aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



L12 ANSWER 2 OF 8 HCAPLUS COPYRIGHT 2002 ACS
 AN 2001:537522 HCAPLUS
 DN 135:136408
 TI Form of dipeptidylpeptidase IV (CD26) found in human serum, antibodies thereto, and uses thereof
 IN Duke-Cohan, Jonathan S.; Morimoto, Chikao; Schlossman, Stuart F.
 PA Dana-Farber Cancer Institute, Inc., USA
 SO U.S., 25 pp., Cont.-in-part of U.S. Ser. No. 457,694.
 CODEN: USXXAM
 DT Patent
 LA English
 IC ICM C07K016-00
 NCL 530389600
 CC 15-2 (Immunochemistry)
 Section cross-reference(s): 1, 9
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6265551	B1	20010724	US 1996-657339	19960603

US 6325989	B1	20011204	US 1995-457694	19950601
CA 2222419	AA	19961205	CA 1996-2222419	19960603
WO 9638550	A1	19961205	WO 1996-US8370	19960603

W: CA, JP

RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

JP 2002515724	T2	20020528	JP 1996-536764	19960603
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PRAI US 1995-457694 A2 19950601

US 1996-657339 A 19960603

WO 1996-US8370 W 19960603

AB A circulating, sol. form of DPPIV/CD26 isolated from human serum is disclosed. The serum form shares similar enzymic and antigenic properties with the ubiquitous membrane form. However, in several biochem. aspects there are distinct differences. In particular, the circulating serum form has a mol. wt. of 175 kDa (in contrast to the 105 kDa mol. wt. of the membrane form), and it does not bind Adenosine Deaminase Type-1. Nevertheless, the circulating form expresses functional dipeptidylpeptidase IV activity and retains the ability to costimulate the T lymphocyte response to recall antigen. Circulating DPPIV has been detd. to be the sol. form of a 175 kDa DPPIV CD26-related mol. rapidly expressed on the surface of activated T cells, prior to the expression of 105 kDa CD26. Although 105 kDa membrane type CD26 may be found in the serum in small amts., the majority of serum DPPIV activity is provided by a novel peptidase structurally distinct from 105 kDa CD26/DPPIV. Polyclonal and monoclonal antibodies capable of distinguishing the 175 kDa form from the 105 kDa form are also disclosed. As an immunostimulant, 175 kDa DPPIV may be used in the treatment of numerous diseases, such as AIDS, systemic lupus erythematosus, rheumatoid arthritis, and other autoimmune diseases, or as an adjuvant in a vaccine.

ST dipeptidylpeptidase IV soluble antibody immunoassay immunotherapy

IT Blood serum

Test kits

(175-kDa dipeptidylpeptidase IV (DPPIV) found in human serum, detection of DPPIV using antibodies, and use of DPPIV in treatment of diseases)

IT Antibodies

RL: ARG (Analytical reagent use); BPN (Biosynthetic preparation); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)

(175-kDa dipeptidylpeptidase IV (DPPIV) found in human serum, detection of DPPIV using antibodies, and use of DPPIV in treatment of diseases)

IT Immunostimulants

(175-kDa dipeptidylpeptidase IV stimulates T cell activation)

IT Proteins, specific or class

RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses) (A, immunoassay; detection of 175-kDa dipeptidylpeptidase IV by)

IT Hybridoma

(B-cell; 175-kDa dipeptidylpeptidase IV (DPPIV) found in human serum, detection of DPPIV using antibodies, and use of DPPIV in treatment of diseases)

IT T cell (lymphocyte)

(activation; 175-kDa dipeptidylpeptidase IV stimulates T cell activation)

IT Immunostimulants

(adjuvants; use of 175-kDa dipeptidylpeptidase IV as an adjuvant in vaccines and in therapeutic compns. for treatment of diseases)

IT Immunoassay

(agglutination test; detection of 175-kDa dipeptidylpeptidase IV by)

IT Mouse

Rabbit

(anti-DPPIV antibodies produced in)

IT Immunoassay

(complement fixation; detection of 175-kDa dipeptidylpeptidase IV by)

IT Immunoassay

(enzyme-linked immunosorbent assay; detection of 175-kDa

dipeptidylpeptidase IV by)

IT Immunoassay
(fluorescence; detection of 175-kDa dipeptidylpeptidase IV by)

IT Transplant and Transplantation
(graft-vs.-host reaction; use of 175-kDa dipeptidylpeptidase IV as an adjuvant in vaccines and in therapeutic compns. for treatment of diseases)

IT Immunoassay
(immunodiffusion; detection of 175-kDa dipeptidylpeptidase IV by)

IT Immunoassay
(immunoelectrophoresis; detection of 175-kDa dipeptidylpeptidase IV by)

IT Immunoassay
(immunoradiometric assay; detection of 175-kDa dipeptidylpeptidase IV by)

IT Drug delivery systems
(injections, i.m.; use of 175-kDa dipeptidylpeptidase IV as an adjuvant in vaccines and in therapeutic compns. for treatment of diseases)

IT Drug delivery systems
(injections, i.p.; use of 175-kDa dipeptidylpeptidase IV as an adjuvant in vaccines and in therapeutic compns. for treatment of diseases)

IT Drug delivery systems
(injections, i.v.; use of 175-kDa dipeptidylpeptidase IV as an adjuvant in vaccines and in therapeutic compns. for treatment of diseases)

IT Drug delivery systems
(injections, s.c.; use of 175-kDa dipeptidylpeptidase IV as an adjuvant in vaccines and in therapeutic compns. for treatment of diseases)

IT Antibodies
RL: ARG (Analytical reagent use); BPN (Biosynthetic preparation); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)
(monoclonal; 175-kDa dipeptidylpeptidase IV (DPPIV) found in human serum, detection of DPPIV using antibodies, and use of DPPIV in treatment of diseases)

IT Fluorescent substances
Ions
Luminescent substances
Radioactive substances
(on antibody for detection of 175-kDa dipeptidylpeptidase IV)

IT Avidins
Enzymes, uses
Phytoerythrins
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
(on antibody for detection of 175-kDa dipeptidylpeptidase IV)

IT Drug delivery systems
(oral; use of 175-kDa dipeptidylpeptidase IV as an adjuvant in vaccines and in therapeutic compns. for treatment of diseases)

IT Immunoassay
(precipitin; detection of 175-kDa dipeptidylpeptidase IV by)

IT Immunoassay
(radioimmunoassay; detection of 175-kDa dipeptidylpeptidase IV by)

IT Immunoassay
(sandwich; detection of 175-kDa dipeptidylpeptidase IV by)

IT Lupus erythematosus
(systemic; use of 175-kDa dipeptidylpeptidase IV as an adjuvant in vaccines and in therapeutic compns. for treatment of diseases)

IT AIDS (disease)
Autoimmune disease
Immunotherapy
Multiple sclerosis
Rheumatoid arthritis
Vaccines
(use of 175-kDa dipeptidylpeptidase IV as an adjuvant in vaccines and in therapeutic compns. for treatment of diseases)

- IT 54249-88-6DP, dipeptidylpeptidase IV, analogs 54249-88-6P,
dipeptidylpeptidase IV
RL: ANT (Analyte); BAC (Biological activity or effector, except adverse);
BSU (Biological study, unclassified); PRP (Properties); PUR (Purification
or recovery); THU (Therapeutic use); ANST (Analytical study); BIOL
(Biological study); PREP (Preparation); USES (Uses)
(175-kDa dipeptidylpeptidase IV (DPPIV) found in human serum, detection
of DPPIV using antibodies, and use of DPPIV in treatment of diseases)
- IT 9003-99-0, Peroxidase
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
(horseradish; on antibody for detection of 175-kDa dipeptidylpeptidase
IV)
- IT 58-85-5, Biotin 93-35-6, Umbelliferone 521-31-3,
Luminol 605-65-2, Dansyl chloride 2321-07-5, Fluorescein 9000-81-1,
Acetylcholine esterase 9001-78-9, Alkaline phosphatase 10028-17-8,
Tritium, uses 10043-66-0, iodine-131, uses 13558-31-1 14158-31-7,
iodine-125, uses 15117-53-0, sulfur-35, uses 21811-74-5,
Dichlorotriazinylaminofluorescein 27072-45-3, Fluorescein
isothiocyanate
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
(on antibody for detection of 175-kDa dipeptidylpeptidase IV)
- IT 352017-85-7
RL: PRP (Properties)
(unclaimed protein sequence; form of dipeptidylpeptidase IV (CD26)
found in human serum, antibodies thereto, and uses thereof)
- IT 351902-71-1 351902-72-2 351902-73-3 351902-74-4 351902-75-5
351902-76-6 351902-77-7 351902-78-8 351902-79-9 351902-80-2
351902-81-3
RL: PRP (Properties)
(unclaimed sequence; form of dipeptidylpeptidase IV (CD26) found in
human serum, antibodies thereto, and uses thereof)

RE.CNT 42 THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD
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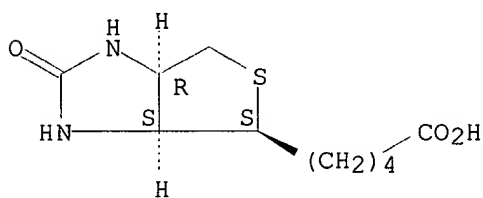
IT 58-85-5, Biotin

RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
 (on antibody for detection of 175-kDa dipeptidylpeptidase IV)

RN 58-85-5 HCAPLUS

CN 1H-Thieno[3,4-d]imidazole-4-pentanoic acid, hexahydro-2-oxo-,
 (3aS,4S,6aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



L12 ANSWER 3 OF 8 HCAPLUS COPYRIGHT 2002 ACS

AN 2001:338673 HCAPLUS

DN 134:350284

TI Methods to screen microorganisms or gene libraries for products secreted from a cell

IN Moeller, Soeren; Kongsbak, Lars; Kristensen, Hans-Henrik; Vind, Jesper; Pedersen, Henrik; Husum, Tommy Lykke

PA Novozymes A/S, Den.

SO PCT Int. Appl., 55 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM C12N

CC 9-16 (Biochemical Methods)

Section cross-reference(s): 3, 10

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001032829	A2	20010510	WO 2000-DK566	20001010
	WO 2001032829	A3	20011213		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	AU 2000076460	A5	20010514	AU 2000-76460	20001010

PRAI DK 1999-1602 A 19991105
 WO 2000-DK566 W 20001010

AB The invention describes methods for screening for products secreted from the cells, and provides methods to establish a correlation between the activity of the secreted product and the secreting cell. Accordingly in a first aspect the present invention relates to a method for screening a DNA library for DNA of interest comprising the steps of (a) creating host cells comprising the DNA library, (b) generating samples each comprising a host cell of step (a), (c) establishing a means for correlating of interest in a sample of the sample, (d) detg. which intensity interval of fluorescence indicates secretion in the sample when the correlating means of step (c) is used, (e) cultivating the samples under suitable conditions, and (f) selecting the samples exhibiting fluorescence within the intensity interval of step (d) using a fluorescence analyzer; wherein the host cell comprises DNA of interest.

ST screen microorganism gene library product secretion cell

IT Fluorescent dyes
 (Bifunctional; methods to screen microorganisms or gene libraries for products secreted from a cell)

IT Fluorometry
 (Fluorescence Activated Cell Sorter; methods to screen microorganisms or gene libraries for products secreted from a cell)

IT Resonant energy transfer
 (Fluorescence; methods to screen microorganisms or gene libraries for products secreted from a cell)

IT Avidins
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 (Fluorescently labeled; methods to screen microorganisms or gene libraries for products secreted from a cell)

IT Animal
 Plant (Embryophyta)
 (Transgenic; methods to screen microorganisms or gene libraries for products secreted from a cell)

IT Gene
 (expression; methods to screen microorganisms or gene libraries for products secreted from a cell)

IT Apparatus
 (fluorescence activated cell sorter; methods to screen microorganisms or gene libraries for products secreted from a cell)

IT Erythrocyte
 Macrophage
 (ghost; methods to screen microorganisms or gene libraries for products secreted from a cell)

IT Animal tissue culture
 Antimicrobial agents
 Aspergillus
 Aspergillus nidulans
 Aspergillus niger
 Aspergillus oryzae
 Bacillus (bacterium genus)
 Bacillus clausii
 Bacillus licheniformis
 Bacillus subtilis
 Bacteria (Eubacteria)
 Carbon sources, microbial
 Cell
 Culture media
 DNA sequences
 Diffusion
 Drugs
 Encapsulation
 Escherichia

Escherichia coli
 Evolution
 Films
 Fluorescence
 Fluorescent substances
 Fluorometers
 Fungi
 Genomic library
 Liposomes
 Microorganism
 Microspheres
 Nucleic acid library
 Samples
 Secretion (process)
 (methods to screen microorganisms or gene libraries for products
 secreted from a cell)

IT DNA
 Enzymes, biological studies
 Gene
 Hemoglobins
 Lipids, biological studies
 Transgene
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (methods to screen microorganisms or gene libraries for products
 secreted from a cell)

IT Antibodies
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
 (Uses)
 (methods to screen microorganisms or gene libraries for products
 secreted from a cell)

IT Carbohydrates, biological studies
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
 (Uses)
 (methods to screen microorganisms or gene libraries for products
 secreted from a cell)

IT Caseins, biological studies
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
 (Uses)
 (methods to screen microorganisms or gene libraries for products
 secreted from a cell)

IT Peptides, biological studies
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
 (Uses)
 (methods to screen microorganisms or gene libraries for products
 secreted from a cell)

IT Polysaccharides, biological studies
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
 (Uses)
 (methods to screen microorganisms or gene libraries for products
 secreted from a cell)

IT Proteins, general, biological studies
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
 (Uses)
 (methods to screen microorganisms or gene libraries for products
 secreted from a cell)

IT Environment
 (microenvironment; methods to screen microorganisms or gene libraries
 for products secreted from a cell)

IT Genetic vectors
 (recombinant; methods to screen microorganisms or gene libraries for
 products secreted from a cell)

IT 9001-62-1, Lipase 9001-92-7, Protease 9003-99-0, Peroxidase
 9013-05-2, Phosphatase 9013-79-0, Esterase 9031-11-2, Lactase

9031-44-1, Kinase 9031-48-5, Glucosyltransferase 9031-66-7, Transaminase 9033-06-1, Glucosidase 9038-14-6, Monooxygenase 37292-90-3, Dioxygenase 37341-58-5, Phytase 80498-15-3, Laccase 93229-67-5, Haloperoxidase 131384-64-0, Rhamnogalacturonase
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (methods to screen microorganisms or gene libraries for products secreted from a cell)

IT 58-85-5, Biotin 81-88-9 2321-07-5, Fluorescein 9000-07-1, Carrageenan 9000-69-5, Pectin 9000-92-4, Amylase 9003-05-8, Polyacrylamide 9004-34-6, Cellulose, biological studies 9004-54-0, Dextran, biological studies 9005-25-8, Starch, biological studies 9005-32-7, Alginic acid 9012-36-6, Agarose 9012-76-4, Chitosan 9013-20-1D, Streptavidin., Fluorescently labeled

51306-35-5

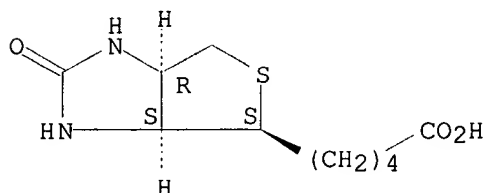
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 (methods to screen microorganisms or gene libraries for products secreted from a cell)

IT 58-85-5, Biotin 51306-35-5
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 (methods to screen microorganisms or gene libraries for products secreted from a cell)

RN 58-85-5 HCAPLUS

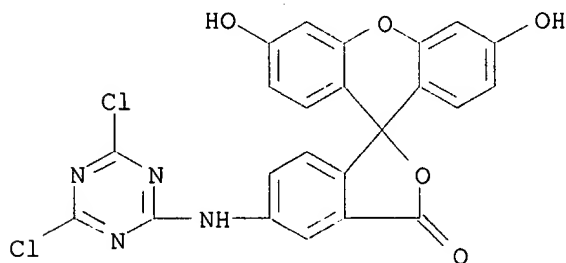
CN 1H-Thieno[3,4-d]imidazole-4-pentanoic acid, hexahydro-2-oxo-, (3aS,4S,6aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 51306-35-5 HCAPLUS

CN Spiro[isobenzofuran-1(3H),9'-[9H]xanthen]-3-one, 5-[(4,6-dichloro-1,3,5-triazin-2-yl)amino]-3',6'-dihydroxy- (9CI) (CA INDEX NAME)



L12 ANSWER 4 OF 8 HCAPLUS COPYRIGHT 2002 ACS

AN 1997:343121 HCAPLUS

DN 127:78169

TI Synthesis and characterization of highly sensitive heparin probes for detection of heparin-binding proteins

AU Stearns, Nancy A.; Prigent-Richard, Sandrine; Letourneur, Didier; Castellot, John J., Jr.

CS Tufts Univ. School Medicine, Boston, MA, 02111, USA

SO Analytical Biochemistry (1997), 247(2), 348-356
 CODEN: ANBCA2; ISSN: 0003-2697

PB Academic

DT Journal

LA English

CC 9-16 (Biochemical Methods)

AB Three labeled heparin species were synthesized as probes for heparin-binding protein detection. Heparin conjugated with 5([4,6-**dichlorotriazin-2-yl]amino)fluorescein** can be iodinated to a high specific activity. This probe specifically detected 40 pg histone on a dot blot without affinity purifn. Heparin **biotinylated** on its naturally occurring primary amino groups also detected known heparin-binding proteins in a specific manner. This probe detected lower amts. of collagen I and basic fibroblast growth factor on nitrocellulose membranes than did the iodinated probe, with comparable detection times. To create more attachment sites for **biotin**, we covalently attached amino groups to the hydroxyl groups of heparin using 3-bromopropylamine hydrobromide. After **biotinylation**, the amino-rich probe detected heparin-binding proteins at the same or higher sensitivity as the **biotinylated** native heparin probe, using 100-fold less probe and much shorter detection times. This method of labeling is generally applicable to other polysaccharides, and would be useful when the amt. of ligand is limited. We show that these three probes detect essentially the same spectrum of proteins in detergent ext. of smooth muscle cell plasma membrane, and expect them to be useful probes for detection of cell-surface heparin receptors.

ST heparin binding protein detection probe synthesis

IT Proteins, specific or class
 RL: ANT (Analyte); ANST (Analytical study)
 (heparin-binding; synthesis and characterization of highly sensitive heparin probes for detection of heparin-binding proteins)

IT Cell membrane
 Muscle
 (synthesis and characterization of highly sensitive heparin probes for detection of heparin-binding proteins)

IT Histones
 RL: ANT (Analyte); ANST (Analytical study)
 (synthesis and characterization of highly sensitive heparin probes for detection of heparin-binding proteins)

IT Collagens, analysis
 RL: ANT (Analyte); ANST (Analytical study)
 (type I; synthesis and characterization of highly sensitive heparin probes for detection of heparin-binding proteins)

IT 62031-54-3, Fibroblast growth factor
 RL: ANT (Analyte); ANST (Analytical study)
 (synthesis and characterization of highly sensitive heparin probes for detection of heparin-binding proteins)

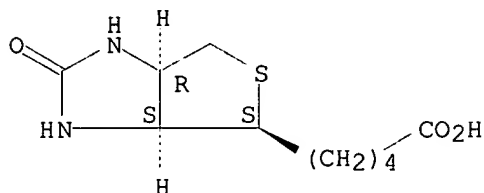
IT 9005-49-6DP, Heparin, deriv., preparation 191671-47-3DP, heparin derivs
 RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)
 (synthesis and characterization of highly sensitive heparin probes for detection of heparin-binding proteins)

IT 58-85-5, Biotin, 5003-71-4, 3-Bromopropylamine hydrobromide 51306-35-5, 5([4,6-**Dichlorotriazin-2-yl]amino)fluorescein** 191671-46-2
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (synthesis and characterization of highly sensitive heparin probes for detection of heparin-binding proteins)

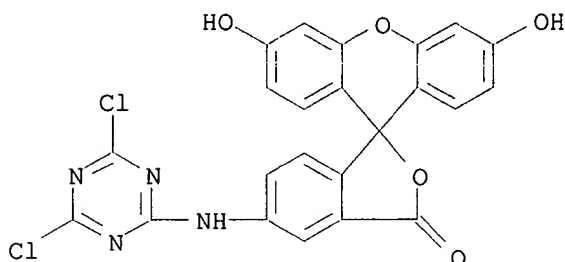
IT 58-85-5, Biotin, 51306-35-5, 5([4,6-**Dichlorotriazin-2-yl]amino)fluorescein**
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (synthesis and characterization of highly sensitive heparin probes for detection of heparin-binding proteins)

RN 58-85-5 HCAPLUS
 CN 1H-Thieno[3,4-d]imidazole-4-pentanoic acid, hexahydro-2-oxo-,
 (3aS,4S,6aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 51306-35-5 HCAPLUS
 CN Spiro[isobenzofuran-1(3H),9'-[9H]xanthen]-3-one, 5-[(4,6-dichloro-1,3,5-triazin-2-yl)amino]-3',6'-dihydroxy- (9CI) (CA INDEX NAME)



L12 ANSWER 5 OF 8 HCAPLUS COPYRIGHT 2002 ACS

AN 1996:525942 HCAPLUS

DN 125:322157

TI Evaluation of five green fluorescence-emitting streptavidin-conjugated fluorochromes for use in immunofluorescence microscopy

AU Benchaib, Mehdi; Delorme, Richard; Pluvinaige, Muriel; Bryon, Paul Andre; Souchier, Catherine

CS Analytical Cytology Lab., Claude Bernard Univ., Lyon, F-69373, Fr.

SO Histochemistry and Cell Biology (1996), 106(2), 253-256
 CODEN: HCBIFP

PB Springer

DT Journal

LA English

CC 9-10 (Biochemical Methods)

Section cross-reference(s): 15

AB **Fluorescein** isothiocyanate (FITC) is largely used in immunofluorescence methods. We propose to analyze the quality of some recent fluorochromes using image anal. Fluorochromes tested include FITC and **dichlorotriazinylaminofluorescein (DTAF)**, dipyrrometheneboron difluoride (BODIPY), Rhodol Green, and cyanine 2. RAMOS cells were immunolabeled against the proliferating cell nuclear antigen (PCNA) revealed by the **biotin-streptavidin** technique. Slides were mounted in anhyd. glycerol or in buffered glycerol (pH 7.0 or pH 8.5). No antifading medium was added. Cell fluorescence emission intensity and bleaching characteristics were measured. Rhodol Green exhibited the highest fluorescence intensity and the best photobleaching resistance. Although BODIPY also resisted well during the photobleaching assay, its fluorescence intensity was weak. FITC, **DTAF** and cyanine 2 showed intermediate fluorescence intensity and a fast decay of fluorescence. Among the green-emitting fluorochromes tested, Rhodol Green appeared to be the best.

ST immunofluorescence microscopy green fluorescence emitting fluorochrome
 IT Dyes
 RL: ARG (Analytical reagent use); PRP (Properties); ANST (Analytical study); USES (Uses)
 (cyanine 2, streptavidin conjugates; green fluorescence-emitting fluorochromes for immunofluorescence microscopy)
 IT Fluorescence
 (green fluorescence-emitting fluorochromes for immunofluorescence microscopy)
 IT Deoxyribonucleic acid formation factors
 RL: ANT (Analyte); ANST (Analytical study)
 (cyclins, green fluorescence-emitting fluorochromes for immunofluorescence microscopy)
 IT Dyes
 (fluorescent, streptavidin conjugates; green fluorescence-emitting fluorochromes for immunofluorescence microscopy)
 IT Immunoassay
 (immunofluorescence microscopy, green fluorescence-emitting fluorochromes for immunofluorescence microscopy)
 IT 9013-20-1D, Streptavidin, fluorochrome conjugates 21811-74-5D, **Dichlorotriazinylaminofluorescein**, streptavidin conjugates 27072-45-3D, FITC, streptavidin conjugates 138026-71-8D, Dipyrrometheneboron difluoride, streptavidin conjugates 183185-51-5D, Rhodol Green, streptavidin conjugates
 RL: ARG (Analytical reagent use); PRP (Properties); ANST (Analytical study); USES (Uses)
 (green fluorescence-emitting fluorochromes for immunofluorescence microscopy)

L12 ANSWER 6 OF 8 HCAPLUS COPYRIGHT 2002 ACS
 AN 1995:982407 HCAPLUS
 DN 124:15482
 TI Bioactive and/or targeted dendrimer conjugates
 IN Tomalia, Donald A.; Baker, James R.; Bielinska, Anna U.; Brothers, Herbert M., II; Cheng, Roberta C.; Fazio, Michael J.; Hedstrand, David M.; Johnson, Jennifer A.; Kaplan, Donald A.; et al.
 PA Dow Chemical Co., USA; Dendritech Inc.; Regents of the University of Michigan
 SO PCT Int. Appl., 252 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 IC ICM A61K047-48
 ICS C12N015-87
 CC 63-6 (Pharmaceuticals)
 Section cross-reference(s): 5, 35
 FAN.CNT 9

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9524221	A1	19950914	WO 1995-US3045	19950307
W: AU, BR, CA, CN, CZ, EE, FI, GE, HU, JP, KR, LT, LV, MX, NO, NZ, PL, PT, RU, SI, SK, UA, US, US, US, US, US, US, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
BR 8707431	A	19881101	BR 1987-7431	19870419
AT 89743	E	19930615	AT 1987-307266	19870817
JP 63501878	T2	19880728	JP 1987-505282	19870818
JP 07002840	B4	19950118		
JP 63502350	T2	19880908	JP 1987-505084	19870818
JP 07057735	B4	19950621		
BR 8707433	A	19881101	BR 1987-7433	19870818
FI 8801768	A	19880415	FI 1988-1768	19880415
US 5338532	A	19940816	US 1991-654851	19910213
US 5527524	A	19960618	US 1993-43198	19930405

CA 2161684	AA	19950914	CA 1995-2161684	19950307
AU 9521181	A1	19950925	AU 1995-21181	19950307
EP 699079	A1	19960306	EP 1995-914006	19950307
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
ZA 9501877	A	19960909	ZA 1995-1877	19950307
JP 08510761	T2	19961112	JP 1995-523673	19950307
RU 2127125	C1	19990310	RU 1995-122714	19950307
IL 128773	A1	20010520	IL 1995-128773	19950307
IL 128774	A1	20010520	IL 1995-128774	19950307
IL 128775	A1	20010520	IL 1995-128775	19950307
PL 181064	B1	20010531	PL 1995-311633	19950307
PL 182237	B1	20011130	PL 1995-335982	19950307
FI 9505320	A	19951124	FI 1995-5320	19951106
NO 9504434	A	19960105	NO 1995-4434	19951106
FI 9801807	A	19980824	FI 1998-1807	19980824
PRAI US 1986-897455	A2	19860818		
US 1987-87266	A2	19870818		
US 1989-386049	A2	19890726		
US 1991-654851	A2	19910213		
US 1993-43198	A2	19930405		
US 1994-207494	A2	19940307		
US 1994-316536	A2	19940930		
EP 1987-307266	A	19870817		
WO 1987-US2075	W	19870818		
WO 1987-US2076	A	19870818		
IL 1995-112920	A3	19950307		
WO 1995-US3045	W	19950307		
AB	Dendritic polymer conjugates which are composed of at least one dendrimer in assocn. with at least one unit of a carried material, where the carrier material can be a biol. response modifier, have been prepd. The conjugate can also have a target director present, and when it is present, then the carried material may be a bioactive agent. Preferred dendritic polymers are dense star polymers, which have been complexed with biol. response modifiers. These conjugates and complexes have particularly advantageous properties due to their unique characteristics.			
ST	dendrimer polymer conjugate bioactive			
IT	Virus			
	(bioactive and/or targeted dendrimer conjugates)			
IT	Dendritic polymers			
	RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)			
	(bioactive and/or targeted dendrimer conjugates)			
IT	Deoxyribonucleic acids			
	Gene, animal			
	Interferons			
	RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)			
	(bioactive and/or targeted dendrimer conjugates)			
IT	Immunoglobulins			
	RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)			
	(G, conjugates, with Starburst polyamidoamine; bioactive and/or targeted dendrimer conjugates)			
IT	Therapeutics			
	(geno-, bioactive and/or targeted dendrimer conjugates)			
IT	Lymphokines and Cytokines			
	RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)			
	(interleukins, bioactive and/or targeted dendrimer conjugates)			
IT	Antibodies			
	RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)			
	(monoclonal, conjugates, with Starburst polyamidoamine; bioactive and/or targeted dendrimer conjugates)			
IT	Polyamines			

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (polyamide-, bioactive and/or targeted dendrimer conjugates)

IT Polyamides, biological studies
 RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (polyamine-, bioactive and/or targeted dendrimer conjugates)

IT Lymphokines and Cytokines
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (tumor necrosis factor, bioactive and/or targeted dendrimer conjugates)

IT 79-08-3D, Bromoacetic acid, reaction products starburst dendrimers
 96-33-3 107-15-3, 1,2-Ethanediamine, reactions 930-41-6, Mesyl
 aziridine 3229-00-3, Pentaerythrityl tetrabromide 72252-47-2,
 4-Hydroxymethyl-2,6,7-trioxabicyclo[2.2.2]octane 119822-21-8
 119822-24-1 131934-31-1
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (bioactive and/or targeted dendrimer conjugates)

IT 119822-25-2P 119822-27-4P 119822-34-3P 119822-35-4P 150749-67-0P
 171409-42-0P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (bioactive and/or targeted dendrimer conjugates)

IT 119822-22-9P 119822-28-5P 119822-31-0P 119822-33-2P 171409-38-4P
 171409-39-5P
 RL: RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use);
 BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent);
 USES (Uses)
 (bioactive and/or targeted dendrimer conjugates)

IT 50-78-2DP, Aspirin, reaction products with Starburst polyamidoamine
58-85-5DP, Biotin, reaction products with Starburst
 polyamidoamine 67-43-6DP, Dtpa, reaction products with Starburst
 polyamidoamine 69-72-7DP, reaction products with Starburst
 polyamidoamine 79-10-7DP, 2-Propenoic acid, reaction products with
 Starburst polyamidoamine 90-82-4DP, Pseudoephedrine, reaction products
 with Starburst polyamidoamine 94-75-7DP, 2,4-D, reaction products with
 Starburst polyamidoamine 107-15-3DP, 1,2-Ethanediamine, reaction
 products with Starburst polyamidoamine 113-24-6DP, Sodium pyruvate,
 reaction products with Starburst polyamidoamine 118-48-9DP, Isatoic
 anhydride, reaction products with Starburst polyamidoamine 137-40-6DP,
 Sodium propionate, reaction products with Starburst polyamidoamine
 301-04-2DP, Lead acetate, complexes with Starburst polyamidoamine
 350-46-9DP, 4-Fluoronitrobenzene, reaction products with Starburst
 polyethylenimine 463-71-8DP, Carbonothioic dichloride, reaction products
 starburst dendrimers 605-65-2DP, Dansyl chloride, reaction products with
 Starburst polyamidoamine 2321-07-5DP, reaction products with Starburst
 polyamidoamine 2984-50-1DP, 1,2-Epoxyoctane, reaction products with
 Starburst polyamidoamine 7390-81-0DP, reaction products with Starburst
 polyamidoamine 7439-89-6DP, Iron, complexes with Starburst
 polyamidoamine 7439-96-5DP, Manganese, complexes with Starburst
 polyamidoamine 7440-02-0DP, Nickel, complexes with Starburst
 polyamidoamine 7440-05-3DP, Palladium, complexes with Starburst
 polyamidoamine 7440-16-6DP, Rhodium, complexes with Starburst
 polyamidoamine 7440-54-2DP, Gadolinium, complexes with Starburst
 polyamidoamine 7440-65-5DP, Yttrium, complexes with Starburst
 polyamidoamine 7665-72-7DP, tert-Butyl glycidyl ether, reaction products
 with Starburst polyamidoamine 7705-08-0DP, Ferric chloride, complexes
 with Starburst polyamidoamine 7773-01-5DP, Manganese chloride, complexes
 with Starburst polyamidoamine 9003-99-0DP, Peroxidase, reaction products
 with Starburst polyamidoamine 9004-10-8DP, Insulin, reaction products
 with Starburst polyamidoamine 10098-91-6DP, Yttrium 90, complexes with
 Starburst polyamidoamine, biological studies 21293-29-8DP, Absciscic
 acid, reaction products with Starburst polyamidoamine 22663-09-8DP,
 Methyl 10,11-epoxyundecanoate, reaction products with Starburst

polyamidoamine 23911-26-4DP, DTPA anhydride, reaction products with Starburst polyamidoamine 30953-20-9DP, Bradykinin potentiator C, reaction products with Starburst polyamidoamine 51306-35-5DP, reaction products with Starburst polyamidoamine 51908-46-4DP, N-Dansylaziridine, reaction products with Starburst polyamidoamine 66556-73-8DP, reaction products with Starburst polyamidoamine 76823-03-5DP, 5-Carboxyfluorescein, reaction products with Starburst polyamidoamine 106754-95-4DP, 4'-Aminomethylfluorescein, reaction products with Starburst polyamidoamine 115234-09-8DP, reaction products with Starburst polyamidoamine 119822-32-1P 130707-76-5DP, reaction products with Starburst polyamidoamine 171409-40-8DP, reaction products with ethylenediamine and Me acrylate 171409-40-8P 171409-41-9P
 RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(bioactive and/or targeted dendrimer conjugates)

IT 143011-72-7, Granulocyte colony stimulating factor

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(bioactive and/or targeted dendrimer conjugates)

IT 9014-00-0, Luciferase

RL: BPR (Biological process); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)

(dendrimer-mediated transfection of; bioactive and/or targeted dendrimer conjugates)

IT 5989-27-5P, (+)-Limonene

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(encapsulation by Starburst polyamidoamine; bioactive and/or targeted dendrimer conjugates)

IT 9004-54-0P, Dextran, biological studies

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(transfection of dendrimers and; bioactive and/or targeted dendrimer conjugates)

IT 58-85-5DP, Biotin, reaction products with Starburst polyamidoamine 51306-35-5DP, reaction products with Starburst polyamidoamine

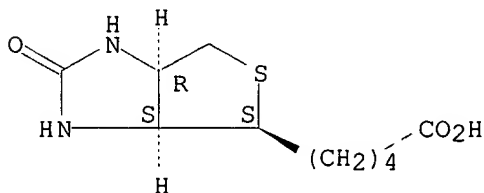
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(bioactive and/or targeted dendrimer conjugates)

RN 58-85-5 HCAPLUS

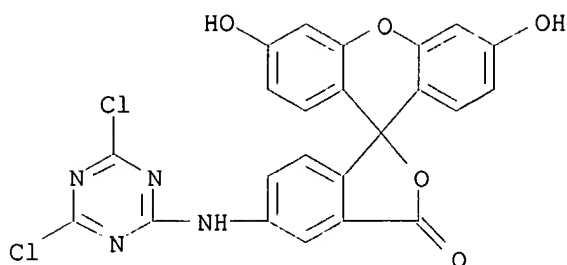
CN 1H-Thieno[3,4-d]imidazole-4-pentanoic acid, hexahydro-2-oxo-, (3aS,4S,6aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 51306-35-5 HCAPLUS

CN Spiro[isobenzofuran-1(3H),9'-[9H]xanthen]-3-one, 5-[(4,6-dichloro-1,3,5-triazin-2-yl)amino]-3',6'-dihydroxy- (9CI) (CA INDEX NAME)



L12 ANSWER 7 OF 8 HCAPLUS COPYRIGHT 2002 ACS
 AN 1994:404522 HCAPLUS
 DN 121:4522
 TI Bridge immunoassay
 IN LaMotte, George B., III
 PA Ciba Corning Diagnostics Corp., USA
 SO U.S., 24 pp. Cont. of U.S. Ser. No. 653,024, abandoned.
 CODEN: USXXAM
 DT Patent
 LA English
 IC ICM G01N033-569
 ICS G01N033-543; G01N033-53; G01N033-536
 NCL 435005000
 CC 9-10 (Biochemical Methods)
 Section cross-reference(s): 15
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5296347	A	19940322	US 1993-14092	19930204
PRAI	US 1991-653024		19910208		

AB Disclosed is a bridge immunoassay, which employs a primary free soln. analyte/receptor binding reaction, for example, in a sandwich-type format (two or more analyte receptors), in a competitive format (single analyte receptor), or in a related immunoassay format, and a universal solid phase and capture system. The universal capture system comprises a first receptor bound to a solid phase and a bridge receptor (a second receptor) which functions both as a ligand for the bound first receptor and as a receptor for a ligand conjugated to a sample analyte receptor (a third receptor). The bridge receptor is used to immobilize the immunocomplexes formed free in soln. by linking them to the bound first receptor. The universal capture system can be used for assays for any analyte as the bridge receptor binds to a ligand, for example, a hapten or binding protein, conjugated to the sample analyte receptor. Methods, compns. and test kits for such bridge immunoassays are provided. A sandwich EIA for serum c-erbB-2 protein is described which uses both mouse anti-c-erbB-2 monoclonal antibodies conjugated to either the hapten FITC or to horseradish peroxidase, c-erbB-2 calibrators and controls, a **biotinylated** mouse monoclonal antibody to FITC as the bridge receptor, and polystyrene tubes coated with streptavidin.
 ST bridge immunoassay; sandwich bridge EIA serum cerbB2 protein
 IT Animal tissue
 Blood analysis
 Urine analysis
 (analyte detn. in, by bridge immunoassay)
 IT Immunoassay
 (bridge, universal solid phase and capture system in)
 IT Pharmaceutical analysis
 (by bridge immunoassay)
 IT Dyes
 (conjugates with anti-analyte antibody, in bridge immunoassay using

universal solid phase and capture system)

IT Radical ions
(conjugates, with anti-analyte antibody, in bridge immunoassay using universal solid phase and capture system)

IT Bacteria
Virus
(detn. of, by bridge immunoassay)

IT Allergens
Antibodies
Antigens
Keratins
Thyroid hormones
Toxins
Vitamins
RL: ANT (Analyte); ANST (Analytical study)
(detn. of, by bridge immunoassay)

IT Steroids, analysis
RL: ANST (Analytical study)
(hormone, detn. of, by bridge immunoassay)

IT Receptors
RL: ANST (Analytical study)
(immobilized, in bridge immunoassay using universal solid phase and capture system)

IT Environmental pollution
(industrial, detn. of, by bridge immunoassay)

IT Enzymes
RL: ANST (Analytical study)
(substrates, conjugates with anti-analyte antibody, in bridge immunoassay using universal solid phase and capture system)

IT Antigens
RL: ANT (Analyte); ANST (Analytical study)
(CEA (carcinoembryonic antigen), detn. of, by bridge immunoassay)

IT Immunoassay
(bioluminescence, bridge, universal solid phase and capture system in)

IT Immunoassay
(chemiluminescence, bridge, universal solid phase and capture system in)

IT Polysaccharides, uses
RL: USES (Uses)
(conjugates, antigenic, with anti-analyte antibody, in bridge immunoassay using universal solid phase and capture system)

IT Haptens
RL: ANST (Analytical study)
(conjugates, with anti-analyte antibody, in bridge immunoassay using universal solid phase and capture system)

IT Immunoassay
(enzyme, bridge, universal solid phase and capture system in)

IT Receptors
RL: ANT (Analyte); ANST (Analytical study)
(epidermal growth factor/.alpha.-transforming growth factor, gene c-erbB, detn. of, by bridge immunoassay)

IT Immunoassay
(fluorescence, bridge, universal solid phase and capture system in)

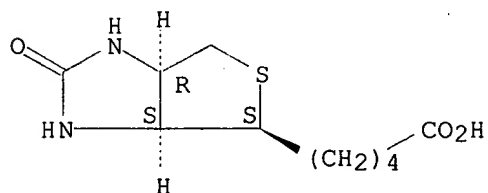
IT Virus, animal
(human immunodeficiency, antibodies to, detn. of, by bridge immunoassay)

IT Avidins
RL: ANST (Analytical study)
(immobilized, in bridge immunoassay using universal solid phase and capture system)

IT Antibodies
RL: ANST (Analytical study)
(monoclonal, to hapten conjugated to anti-analyte antibody, as bridge

- receptor, in bridge immunoassay using universal solid phase and capture system)
- IT Receptors
RL: ANT (Analyte); ANST (Analytical study)
(p185c-erbB2, detn. of, by bridge immunoassay)
- IT Immunoassay
(radioimmunoassay, bridge, universal solid phase and capture system in)
- IT Fetoproteins
RL: ANT (Analyte); ANST (Analytical study)
(.alpha.-, detn. of, by bridge immunoassay)
- IT Animal growth regulator receptors
RL: ANT (Analyte); ANST (Analytical study)
(.alpha.-transforming growth factor gene c-erbB, detn. of, by bridge immunoassay)
- IT 58-85-5D, Biotin, anti-hapten antibody conjugates
RL: ANST (Analytical study)
(as bridge receptor in bridge immunoassay using universal solid phase and capture system)
- IT 9002-61-3, Chorionic gonadotropin
RL: ANST (Analytical study)
(detn. of human, by bridge immunoassay)
- IT 51-48-9, Thyroxine, analysis 9002-71-5, Thyroid-stimulating hormone
9025-26-7, Cathepsin D
RL: ANT (Analyte); ANST (Analytical study)
(detn. of, by bridge immunoassay)
- IT 70-34-8D, 2,4-Dinitrofluorobenzene, anti-analyte antibody conjugates
260-94-6D, Acridine, derivs., anti-analyte antibody conjugates
605-65-2D, Dansyl chloride, anti-analyte antibody conjugates 2321-07-5D,
Fluorescein, derivs., anti-analyte antibody conjugates 9001-78-9D,
Alkaline phosphatase, conjugates with anti-analyte antibody 9002-13-5D,
Urease, conjugates with anti-analyte antibody 9003-99-0D, Peroxidase,
conjugates with anti-analyte antibody 9013-20-1D, Streptavidin,
immobilized 13558-31-1D, Rhodamine, derivs., anti-analyte antibody
conjugates 21811-74-5D, **Dichlorotriazinyl**
aminofluorescein, anti-analyte antibody conjugates 25154-54-5D,
Dinitrobenzene, anti-analyte antibody conjugates 25168-10-9D,
Naphthylamine, derivs., anti-analyte antibody conjugates 27072-45-3D,
Fluorescein isothiocyanate, anti-analyte antibody conjugates
63368-54-7D, anti-analyte antibody conjugates 107347-53-5D, Tetramethyl
rhodamine isothiocyanate, anti-analyte antibody conjugates
RL: ANST (Analytical study)
(in bridge immunoassay using universal solid phase and capture system)
- IT 58-85-5D, Biotin, anti-hapten antibody conjugates
RL: ANST (Analytical study)
(as bridge receptor in bridge immunoassay using universal solid phase and capture system)
- RN 58-85-5 HCAPLUS
- CN 1H-Thieno[3,4-d]imidazole-4-pentanoic acid, hexahydro-2-oxo-,
(3aS,4S,6aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



AN 1989:229134 HCAPLUS
 DN 110:229134
 TI Association of glyceraldehyde-3-phosphate dehydrogenase with the plasma membrane of the intact human red blood cell
 AU Rogalski, Adrienne A.; Steck, Theodore L.; Waseem, Ahmad
 CS Dep. Anat. Cell Biol., Univ. Illinois, Chicago, IL, 60612, USA
 SO Journal of Biological Chemistry (1989), 264(11), 6438-46
 CODEN: JBCHA3; ISSN: 0021-9258
 DT Journal
 LA English
 CC 13-5 (Mammalian Biochemistry)
 AB The distribution of glyceraldehyde 3-phosphate dehydrogenase (G3PD) in the intact human erythrocyte was examd. using indirect immunofluorescence and affinity-purified rabbit antibodies to G3PD. Antibody specificity was demonstrated by immunoblotting as well as immunofluorescence expts. with ghosts specifically depleted of and reconstituted with G3PD. Anti-G3PD immunolabeling expts. utilized both fixed whole cells and fixed cell suspensions infused with 2.3M sucrose, frozen, and thick-sectioned. In all expts., a 2-step fixation protocol was employed which ensured that cytoplasmic Hb was retained when cells were subjected to Triton X 100 permeabilization, the antigenicity of G3PD was preserved, and antibody penetration was complete. Mixts. of **biotinylated** affinity-purified antibodies to G3PD and **dichlorotriazinylaminofluorescein**-labeled, affinity-purified antibodies to Hb were used, followed by rhodamine-streptavidin, in double-label expts. In both whole and sectioned human erythrocytes, G3PD staining was predominantly membrane-assocd., whereas Hb staining was diffusely distributed throughout the cytoplasm. In isolated ghosts, some G3PD was tightly bound to the membrane and was resistant to elution with phosphate-buffered saline and NAD/arsenate. However, in immunolabeled rat reticulocytes and erythrocytes, G3PD was cytoplasmic. Nucleated human blood cells and platelets also exhibited cytoplasmic G3PD. In .apprx.10% of the human erythrocyte population, G3PD was also cytoplasmic. These cells were flatter in shape and exhibited strong cytoplasmic immunolabeling for Hb which was sometimes concd. along the cell membrane; possibly, these cells were late reticulocytes or early erythrocytes. In conclusion, G3PD is preferentially assocd. with the plasma membrane of human erythrocytes in a specific fashion.
 ST glyceraldehyde phosphate dehydrogenase erythrocyte membrane
 IT Erythrocyte
 (glyceraldehyde phosphate dehydrogenase of cell membrane of, of human)
 IT Blood platelet
 (glyceraldehyde phosphate dehydrogenase of cytoplasm of, of human)
 IT Reticulocyte
 (glyceraldehyde phosphate dehydrogenase of cytoplasm of, of human and lab. animal)
 IT Cytoplasm
 (glyceraldehyde phosphate dehydrogenase of, of blood cells of human and lab. animal)
 IT Cell membrane
 (glyceraldehyde phosphate dehydrogenase of, of erythrocytes of human)
 IT Antibodies
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (to glyceraldehyde phosphate dehydrogenase, of erythrocytes of human, prepn. and characterization of)
 IT Leukocyte
 (polymorphonuclear, glyceraldehyde phosphate dehydrogenase of cytoplasm of, of human)
 IT 9001-50-7, Glyceraldehyde-3-phosphate dehydrogenase
 RL: BIOL (Biological study)
 (of erythrocyte membranes, of human)